

EXHIBIT A

CURRENTLY PENDING CLAIMS

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1. A method for characterizing a coding region allele or haplotype of a multi-allelic genetic locus comprising:

- (a) selecting a region of genomic DNA comprising a non-coding region sequence in genetic linkage with said genetic locus, wherein said non-coding region sequence comprises one or more genetic variations characteristic of a coding-region allele or haplotype or a group of coding-region alleles or haplotypes; and
- (b) identifying said one or more genetic variations in a genomic DNA sample to identify said coding-region allele or haplotype or group of coding-region alleles or haplotypes.

2. The method of Claim 2 additionally comprising:

- (a) selecting a region of genomic DNA comprising a coding region sequence, wherein said coding region sequence comprises one or more genetic variations characteristic of a coding-region allele or haplotype or a group of coding-region alleles or haplotypes; and
- (b) identifying said one or more genetic variations in said coding region in a genomic DNA sample to identify said coding-region allele or haplotype or group of coding-region alleles or haplotypes.

3. The method of Claim 2 wherein the identification of a combination of genetic variations in said coding and non-coding region sequences allows the identification of a coding region allele or haplotype.